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1 Decentralized storage systems: Farsite: federated, available, and reliable storage for an incompletely trusted environment
Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: 📄 pdf(1.87 MB)   Additional Information: full citation, abstract, references

> Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a distributed hint mechanism and delegatio ...

2 Implementing a distributed firewall
Sotiris Ioannidis, Angelos D. Keromytis, Steve M. Bellovin, Jonathan M. Smith
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Full text available: 📄 pdf(309.36 KB)   Additional Information: full citation, references, citings, index terms

Keywords: IKE, IP, IPsec, KeyNote, OpenBSD, access control, credentials, distributed, firewalls, network security, trust management

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1   A calculus for access control in distributed systems   ☐
Martín Abadi, Michael Burrows, Butler Lampson, Gordon Plotkin
September 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS),**
Volume 15 Issue 4

Full text available: ▣ pdf(1.94 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We study some of the concepts, protocols, and algorithms for access control in distributed systems, from a logical perspective. We account for how a principal may come to believe that another principal is making a request, either on his own or on someone else's behalf. We also provide a logical language for accesss control lists and theories for deciding whether requests should be granted.

Keywords: cryptographic protocols, cryptography, modal logic

2   Authentication in the Taos operating system   ☐
Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
February 1994 **ACM Transactions on Computer Systems (TOCS),** Volume 12 Issue 1

Full text available: ▣ pdf(1.88 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We describe a design for security in a distributed system and its implementation. In our design, applications gain access to security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to sup ...

Keywords: cryptography, mathematical logic

3   Authentication in the Taos operating system   ☐
Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles,** Volume 27 Issue 5

Full text available: ▣ pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

We describe a design and implementation of security for a distributed system. In our system, applications access security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations.

A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to support a substantia ...

4 Decentralized storage systems: Farsite: federated, available, and reliable storage for □ an incompletely trusted environment
Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: 🗎 pdf(1.87 MB)   Additional Information: full citation, abstract, references

Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a distributed hint mechanism and delegatio ...

5 Some thoughts on agent trust and delegation   □
Yuh-Jong Hu
May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: 🗎 pdf(339.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we are going to show how to build up agent-oriented Public Key Infrastructure (PKI) from SPKI/SDSI and X.509 standards. A variety of delegation mechanisms for agents will be demonstrated under this agent-oriented PKI. The mechanisms include: chain-ruled, threshold, and conditional. The lack of agent security management standards did not allow us to do the agent trust and delegation in legalized manner so we proposed several new communicative acts to satisfy our agent delegatio ...

6 Mobile and Cooperative Systems: An authorization infrastructure for nomadic   □ computing
Kan Zhang, Tim Kindberg
June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Full text available: 🗎 pdf(198.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present an infrastructure for flexible and secure access to a group of distributed services in a nomadic computing environment, wherein users access local services from their mobile, wirelessly connected devices. We describe a secure hand-off protocol, which allows a user to register with a single service that hands off authorization to access a subset of the services. Our protocol helps maintain the user's privacy. It allows the services (which may be implemented on simple appliances) and ...

Keywords: access control, authorization, mobile computing, nomadic computing, ubiquitous computing

7 Role and task-based access control in the PerDiS groupware platform   □
George Coulouris, Jean Dollimore, Marcus Roberts
October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Full text available: 🗎 pdf(1.01 MB)   Additional Information: full citation, references, index terms

8 Security functions for a file repository   □
Arne Helme, Tage Stabell-Kulø
April 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 2

Full text available: 📄 pdf(469.26 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

When personal machines are incorporated into distributed systems a new mixture of threats is exposed. The security effort in the MobyDick project is aimed at understanding how privacy can be protected in this new environment. Our claim is that a two-step process for authentication and authorisation is required, but also sufficient. The research vehicle is a distributed file repository.

9 A rule-based framework for role-based delegation and revocation   ☐
Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu
August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
    Issue 3

Full text available: 📄 pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Delegation is the process whereby an active entity in a distributed environment authorizes another entity to access resources. In today's distributed systems, a user often needs to act on another user's behalf with some subset of his/her rights. Most systems have attempted to resolve such delegation requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply attaching additional components to their applications. Still, there is a strong need in the large, distrib ...

Keywords: Role, access control, delegation, revocation, rule-based

10 Security and Middleware Services: Towards flexible credential verification in mobile ad- ☐
hoc networks
Sye Loong Keoh, Emil Lupu
October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**
Full text available: 📄 pdf(281.24 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Ad-hoc networks facilitate interconnectivity between mobile devices without the support of a network infrastructure. In this paper we propose a flexible credential verification mechanism, which improves the likelihood that participants in an ad-hoc network can verify each other's credentials despite the lack of access to certification and attribute authorities. Users maintain Credential Assertion Statements (CASs), which are formed through extraction of X.509 and attribute certificates into an i ...

Keywords: authentication, credential verification, security, trust

11 A rule-based framework for role based delegation   ☐
Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**
Full text available: 📄 pdf(238.20 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In current role-based systems, security officers handle assignments of users to roles. However, fully depending on this functionality may increase management efforts in a distributed environment because of the continuous involvement from security officers. The emerging technology of role-based delegation provides a means for implementing RBAC in a distributed environment with empowerment of individual users. The basic idea behind a role-based delegation is that users themselves may delegate ...

Keywords: access control, delegation, role, rule-based

12 A framework for distributed authorization   ☐

Thomas Y. C. Woo, Simon S. Lam

December 1993 **Proceedings of the 1st ACM conference on Computer and
communications security**

Full text available: pdf(639.02 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

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1 **Policies in accountable contracts**
Shand, B.; Bacon, J.;
Policies for Distributed Systems and Networks, 2002. Proceedings. Third
International Workshop on , 5-7 June 2002
Pages:80 - 91

[Abstract]   [PDF Full-Text (291 KB)]   **IEEE CNF**

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2 **Dynamic distributed trust model to control access to resources over the
Internet**
Lei, H.; Shoja, G.C.;
Communications, Computers and signal Processing, 2003. PACRIM. 2003 IEEE
Pacific Rim Conference on , Volume: 2 , 28-30 Aug. 2003
Pages:988 - 991 vol.2

[Abstract]   [PDF Full-Text (358 KB)]   **IEEE CNF**

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3 **Paramecium: an extensible object-based kernel**
van Doorn, L.; Homburg, P.; Tanenbaum, A.S.;
Hot Topics in Operating Systems, 1995. (HotOS-V), Proceedings., Fifth Workshop
on , 4-5 May 1995
Pages:86 - 89

[Abstract]   [PDF Full-Text (316 KB)]   **IEEE CNF**

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4 **Approaches to secure delegation in distributed systems**
Hardjono, T.; Ohta, T.;
Computers and Communications, 1993., Twelfth Annual International Phoenix
Conference on , 23-26 March 1993
Pages:188 - 194

[Abstract]   [PDF Full-Text (540 KB)]   **IEEE CNF**

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